



Utility Model Laid-Open Publication No. 60-077179 (JU 60-077179A)

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Applicant: Sony Corporation

TITLE OF THE INVENTION: Image screen

[CLAIMS]

1. An image screen comprising a vibration exciter provided on a rear surface of a screen plate to produce divided vibrations at plural points of said screen plate, said vibration exciter being adapted to excite each of said plural points at a different phase.
2. The image screen as defined in claim 1, wherein said vibration exciter consists of a plurality of vibration excitors adapted to produce divided vibrations at said respective plural points of said screen plate.
3. The image screen as defined in claim 1, wherein said vibration exciter consists of a single vibration exciter adapted to produce divided vibrations at said plural points of said screen plate, said vibration exciter having a voice coil portion and a magnet portion which are connected to said plural points of said screen plate directly or through an arm so as to excite each of said plural points at a different phase.

[BRIEF DESCRIPTION OF THE DRAWINGS]

FIG. 1 is a rear view of an image screen according to a first embodiment of the present invention.

FIG. 2 is a block diagram showing a phase control circuit of a vibration exciter in the image screen according to the first embodiment.

FIG. 3 is an explanatory diagram showing a vibration mode of a screen plate in the image

screen in FIG. 1.

FIG. 4 is a sectional view showing a detailed structure of the vibration exciter in FIG. 1.

FIG. 5 is a rear view of an image screen according to a second embodiment of the present invention.

FIG. 6 is an enlarged sectional view taken along the line VI-VI in FIG. 5.

FIG. 7 is a sectional view showing one example of modification of a vibration exciter in the image screen according to the second embodiment.

FIG. 8 is a rear view of an image screen according to a third embodiment of the present invention.

FIG. 9 is an enlarged sectional view taken along the line IX-IX in FIG. 8.

FIGS. 10 and 11 are fragmentary sectional views showing examples of a connection between a screen plate and a vibration exciter.

FIG. 12 is an explanatory diagram showing one example of a use mode of an image screen of the present invention.

[EXPLANATION OF CODES]

1: screen plate 2, 2a to 2i: vibration exciter

6: magnet 11: voice coil

⑥公開実用新案公報(U)

昭60-77179

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審査請求 未請求 (全3頁)

⑨考案の名称 映像スクリーン

⑩実願 昭58-168992

⑪出願 昭58(1983)10月31日

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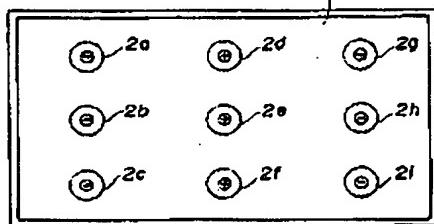
⑮実用新案登録請求の範囲

- (1) スクリーン板の裏面に、該スクリーン板を複数の点で分割振動させる加振器を設け、この加振器により上記複数の点を異なる位相で加振するようにしたことを特徴とする映像スクリーン。
- (2) スクリーン板の複数の点を分割振動させる加振器がそれぞれ別体の加振器で構成されていることを特徴とする実用新案登録請求の範囲第1項記載の映像スクリーン。
- (3) スクリーン板の複数の点を分割振動させる加振器を1個とし、この加振器のボイスコイル部分及びマグネット部分を直接もしくはアームを介してスクリーン板の複数点と結合し、それぞれを異なる位相で加振するようにしたことを特徴とする実用新案登録請求の範囲第1項記載の映像スクリーン。

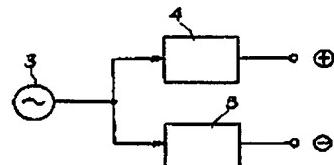
図面の簡単な説明

第1図は本考案映像スクリーンの第1の実施例

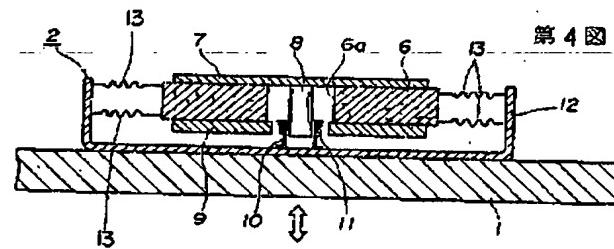
第1図



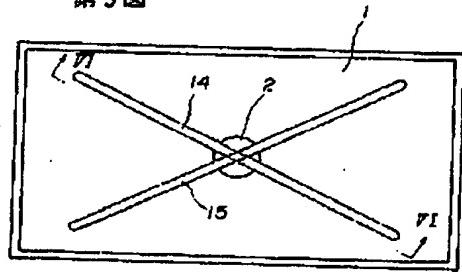
第2図



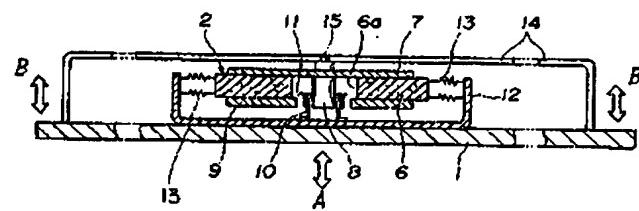
第3図



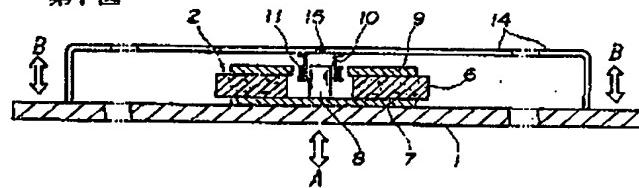
第5図



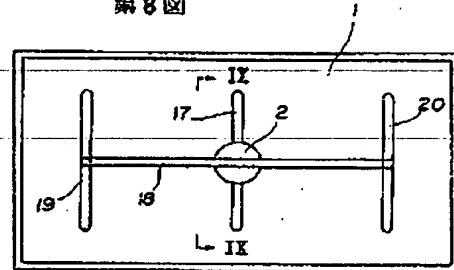
第6図



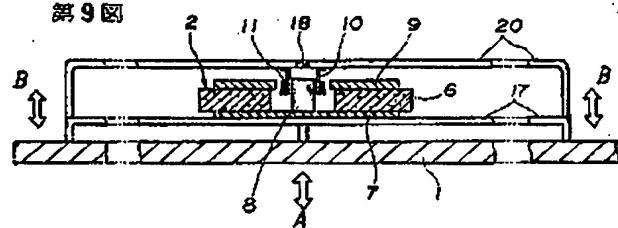
第7図



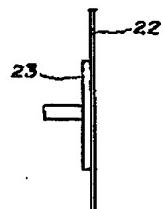
第8図



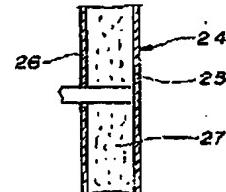
第9図



第10図



第11図



第12図

